

Special Issue

Application of Advanced Oxidation Technologies in Water and Wastewater Purification

Message from the Guest Editor

In the face of pollution of the water environment, it is necessary to control the pollutants that are discharged into nature. The development of advanced oxidation processes for water purification is a promising way to control the pollution of natural water and wastewater discharge. In recent years, a number of studies have tried to develop novel advanced oxidation processes to treat the pollutants in water with high efficiency and a low cost. However, existing technologies are not sufficient for various pollutant treatments, and the decontamination performance and cost-effectiveness of treatments need to be further strengthened. This Special Issue welcomes articles on related topics, including but not limited to decontamination performance enhancement by catalyst modification and coupling process improvement of traditional advanced oxidation processes, new active species development, mechanism investigations, the effects of developed advanced oxidation processes for real wastewater/natural water, and new advanced oxidation process exploration such as non-thermal plasma and electron beam oxidation.

Guest Editor

Dr. Yi Ren

College of Water Resource & Hydropower, Sichuan University,
Chengdu, China

Deadline for manuscript submissions

20 December 2025



Water

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0



mdpi.com/si/205737

Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

[mdpi.com/journal/
water](https://mdpi.com/journal/water)





Water

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0



[mdpi.com/journal/
water](https://mdpi.com/journal/water)



About the Journal

Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST

Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR
CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique
(CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane,
Toulouse, France

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Water Resources) / CiteScore - Q1 (Aquatic Science)